

Application No. 10/808,821
Amendment dated September 27, 2005
Reply to Office Action of June 30, 2005

Docket No. 1232-5357

Amendments to the Claims:

Claims 1-8 are pending in this application. Claim 1 is independent.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (CURRENTLY AMENDED): A display device comprising:

a first substrate and a second substrate enclosing charged particles located on a substrate and means for moving the charged particles parallel to the substrate mixed with insulating liquid therebetween; and

a pair of electrodes disposed on the second substrate to move said charged particles parallel to the first and second substrates by applying an electric signal,

wherein positions a portion of the said charged particles on the substrate covering the second substrate determines a plurality of display states recognized from above the first substrate, and the substrate contains a fluorescent material or a luminous material

wherein a luminescent layer is disposed on the second substrate and a portion of said luminescent layer not covered by the charged particles emits visible light to maintain an image even after an external light eliminates.

2 (CURRENTLY AMENDED): The display device according to claim 1, wherein the fluorescent material or luminous material luminescent layer forms an area that absorbs invisible light and emits visible light.

3 (CURRENTLY AMENDED): The display device according to claim 2, wherein the plurality of display states comprises a state where the area is covered with the charged particles,

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and [[a]] another state where the area is exposed not covered with the charged particle thereby exposing the area.

4 (CURRENTLY AMENDED): The display device according to claim 1, wherein the charged particles contain a material that absorbs light in a wavelength range that excites a ~~fluorescent material or luminescent material~~ the luminescent layer.

5 (CURRENTLY AMENDED): The display device according to claim 1, wherein the charged particles contain a material that absorbs a light in a wavelength range corresponding to emission light from ~~a fluorescent material or luminescent material~~ the luminescent layer.

6 (CURRENTLY AMENDED): The display device according to claim 1, wherein the second substrate has a reflecting surface which reflects visible light from above the second substrate, and wherein the ~~fluorescent material or luminescent material~~ luminescent layer is located to cover the reflecting surface.

7 (CURRENTLY AMENDED): The display device according to claim 1, wherein ~~the~~ substrate has a partition is disposed between the first and second substrates to enclose the charged particles to each display element, and the partition contains a fluorescent material or a luminous material.

8 (CURRENTLY AMENDED): The display device according to claim 1, wherein the display device further comprises a container ~~located on the substrate between the two substrates~~, and a transparent liquid held in the container, wherein the charged particles are held in the transparent liquid.

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9 (NEW): The display device of claim 1, wherein the luminescent layer is replaced with a fluorescent layer.

10 (NEW): A display device comprising:

a first substrate disposed on a viewer side, a second substrate disposed at a predetermined spacing with the first substrate;

a luminescent layer disposed on the second substrate;

a first electrode disposed on the luminescent layer exposing at least a portion of the luminescent layer; and

a second electrode disposed on the second substrate,

wherein a plurality of charged particles mixed with insulating liquid are disposed in the predetermined spacing between the first and second substrates, and the charged particles are configured to move by changing a polarity of a voltage applied between the first and second electrodes thereby selectively covering a portion of the predetermined spacing, and

wherein positions of the charged particles determines a plurality of display states recognized from above the first substrate.

11 (NEW): The display device of claim 10, wherein an insulation layer is disposed on the first electrode layer as well as the at least a portion of the luminescent layer exposed by the first electrode layer thereby preventing these layers from direct contacting with the charged particles and insulating liquid.